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| TRANSMITTAL FORM (to be used for all correspondence after initial filing) | Application Number | 09/275,568 | |
| | Filing Date | 3/24/1999 | |
| | First Named Inventor | Michael Pitman | |
| | Art Unit | 1631 | |
| | Examiner Name | Cheyne Ly | |
| Total Number of Pages in This Submission | 17 | Attorney Docket Number | YO998-112 |

| ENCLOSURES (Check all that apply) | | |
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| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance communication to Technology Center (TC) |
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| <input checked="" type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Terminal Disclaimer | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): |
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| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | |
|--|--------------------------------|
| Firm or Individual name | Michael J. Buchenhorner |
| Signature | <i>Michael J. Buchenhorner</i> |
| Date | September 10, 2004 |

| CERTIFICATE OF TRANSMISSION/MAILING | | | |
|---|--------------------------------|------|--------------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. | | | |
| Typed or printed name | Michael J. Buchenhorner | | |
| Signature | <i>Michael J. Buchenhorner</i> | Date | September 10, 2004 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. : 09/275,568
Applicant : Michael Pitman
Filed : 03-24-1999
Examiner : Cheyne Ly
TC/A.U. : 1631
Confirmation No. : 9918
Docket No. : YO998-112
For : SIMILARITY SEARCHING OF MOLECULES
: BASED UPON DESCRIPTOR VECTORS
: CHARACTERIZING MOLECULAR REGIONS

Commissioner for Patents
Mail Stop Amendment
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. § 1.111

Sir:

In response to the Office Action dated June 10, 2004, please amend the above-identified application under 37 CFR § 1.111 as follows:

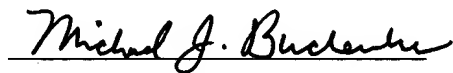
Amendments to the specification are reflected below beginning at page 2 of this paper.

Amendments to the claims are reflected in the listing of the claims that begins at page 3 of this paper.

Remarks/Arguments begin at page 9 of this paper.

Certificate of Facsimile Transmission

I hereby certify that this Amendment and Response to Office Action, and any documents referred to as attached therein are being facsimile transmitted on this date, **Sept. 10, 2004**, to the Commissioner for Patents, Mail Stop Amendment, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

A handwritten signature in cursive script, reading "Michael J. Buchenhorner", is written over a horizontal line.

Michael J. Buchenhorner

Date: Sept. 10, 2004

MIA1 #1222745 v2